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(54) Title: METHODS FOR DIAGNOSING AND TREATING SCHIZOPHRENIA

(57) Abstract: The genes encoding SCYA2, GADD45B, S100A8, CDKN1A, IL1RL1, TGM2, MAFF, SERPINA3, GRO1, CD14, KIAA1075, CHI3L1, SERPINH1, MT1X, KIAA0620, TIMP1, NUMA1, DDIT3 and TOB2, are upregulated in the anterior cingulate of schizophrenic patients compared to normal patients and as such are useful drug targets for schizophrenia. Methods of screening, diagnosing and treating schizophrenia based on these genes are provided. Transgenic nonhuman animals having increased copy number or increased expression levels of these genes are also provided. The transgenic nonhuman animals are used in methods for screening for potential therapeutic agents.

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